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25X1A

OC Savings Through the Use of Computers

1. Personnel Savings:

Activation of MAX-II permitted a reduction of five positions below the level previously required to operate a manual torn tape relay facility. These positions, however, were shifted to the Facilities Control area where functions increased with the addition of circuitry and installation of new communications systems. Additionally, eleven circuits which were previously operated manually in the Project Terminal Facility and Special Activities Facility were also reterminated in MAX, freeing personnel devoted to these manual functions for other duties. Since these changes were not full time functions in either facility (PTF or SAF), no personnel reduction was possible; however, the personnel time previously committed to these functions is being used for other purposes in the message preparation, dissemination, and technical control fields, thus virtually eliminating both overtime and the need to request an increase in the T/O to provide adequate coverage in these areas.

2. Assumption of Heavier Workload:

The MAX Facility, working with a smaller personnel complement, is performing the relay function for 11 circuits beyond those which were handled in the old manual torn tape relay facility. Further, the capability exists in the MAX II repertoire to further increase circuit termination by more than 50% (together with a comparable increase in traffic volumes) but with significantly smaller increases in personnel complements, e.g., probably not more than 10-15% for the relay function.

3. Things We Would Otherwise be Unable to Do:

- a. The generation of error reports denoting on a circuit-by-circuit basis the number of messages requiring human corrective action due to errors in preparation by connected stations/terminals permits timely corrective action to be taken in reducing the percentage of error, resulting in an increase in the operating efficiency of the network.
- b. An increase in the security of message handling on a need-to-know basis in that the normal message need not be viewed by anyone during the relay process.
- c. Almost complete elimination of message backlogs in the relay process, thereby significantly reducing the time loss in message handling for the relay process.
 - d. The possibility of missent messages has been virtually eliminated.



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- e. Permits the effective utilization of high-speed transmission paths (a technique which was not practicable with manual operation), improving the economy of operation by reduction of cryptographic equipment and terminal gear.
- f. Circuit and volume statistics for any given period of time, which previously had to be accumulated manually, are now generated automatically on request.
- g. The amount of paper tape in use in the Signal Center is significantly reduced, with the attendant reduction in the storage and burn requirement as well as a possible fire hazard.
- h. Eliminates the costly and time-consuming error factor resulting from the inevitable percentage of mis-handled messages in a manual torn tape relay process.

Attachment:

MAX I, II & III Savings

Category A-B-C

1	Approved For Release 2 12 1 : CIA-RDP78-04723A000100060049-7	1
25X1	Attachment to OC Paper	
	Savings Through the Use of Computers	
	MAX-I	
25X1 25X1	The installation of MAX-I in FY-1965 permitted the handling of a 50% increase in the traffic work load by FY-1969 without the need for additional personnel. Using FY-1965 (pre-MAX) productivity factors per man, the traffic increase represents the equivalent of approximately more personnel. Since no personnel were added, the figure of positions can be regarded as savings attributable to the automation of	25X1A
25X1A 25X9	the facility. During the past two years BALPA and OPRED reductions taken from the has reduced the overall strength from authorized in 1966 to currently authorized for FY-1970. The combined traffic increases and the personnel reductions could not have been handled without the computer. (Category A-B-C)	25X9
	MAX-II	
25X1	These computer-based, processor-controlled, store-and-forward switching and relay systems perform functions related to inter-station message communication traffic. MAX-II is located in and serves the Headquarters complex. (See for savings or work benefits.) MAX II is programmed and connected for mutual contingency support. (Category A-B-C)	
	MAX-III	
	1. MAX-III is located at MAX-III is programmed and connected with MAX-II for mutual contingency sup On this basis, if MAX-III were to experience failure, MAX-II would take ove MAX-III's work and process the traffic.	25X1A
	2. The Computer Message Switching System has increased the capacity the Relay Station to operate a greater number of circuits with increased volumes without additional manpower. The system has the capacity to cope with the message relay workload more efficiently with improved service to respective tributary stations. The flow of traffic to the tributary is evand the traffic is transmitted in order of precedence on a first-in/first-basis. Additionally, the tributary station has a limited ability of being self-served, i.e., the tributary operator can directly interrogate the proson and receive message re-runs automatically; can start/stop flow of traft to himself as his individual needs dictate.	the en out ces- fic
	3. Although manpower at the relay has not been reduced, the switch points management to assign (1) additional operating personnel to control positions—thus directly improving service to the customer, and (2) person to training in new clandestine and staff equipment and techniques. (Category A-B-C)	

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GROUP 1
Excluded from automatic
downgrading and
declassification